

Product Data



A06623

THE LATEST IN OIL FURNACE TECHNOLOGY

The model 369AAN combines high efficiency and quiet operation with oil heating technology. The 369AAN is available in 2 sizes. Each size can be fired at 3 different rates by a simple nozzle and pump pressure change. Unit 369AAN105 covers input ranges from 70,000 to 105,000 Btuh. Unit 369AAN120 covers input ranges from 119,000 to 154,000 Btuh. The furnace design is a multipoise style for upflow, downflow, and horizontal applications.

The components of the 369AAN are the finest in the industry. The unit uses a Beckett oil burner with a “clean-cut” oil pump, UTEC ignition controller, and fan cycle timer.

The 369AAN is a standard part of a quality-built home. This energy efficient furnace will provide years of quality service to home builders and homeowners alike.

As with other Bryant furnaces, this model is designed to work as part of a total home comfort system which includes elements for cooling, air cleaning, humidification, ventilation, and zoning.

This unit is not approved for use in mobile home installations.

369AAN FEATURES/BENEFITS

Beckett Oil Burner and UTEC Controls

- High quality Beckett oil burner allows safe and efficient combustion of oil.
- UTEC ignition control and fan timer board provide reliable operation and easy connection of thermostat and accessory wiring.

Casing

- Made of 20-gauge, powder-painted steel for years of durability and attractiveness.
- Cabinet features a reversible door, ensuring ease of service access even in downflow applications.

Insulation and Soundproofing

- Unique silencer baffle, insulated walls and rubber blower mounts capture most combustion noise and vibration and make this unit one of the quietest on the market.

Combustion Products Venting

- Top or side flue outlet.
- Unit may be vented using Type L vent material and a factory-built metal or masonry chimney.
- Unit may also be sidewall vented with an approved power venter.

Adjustable Blower Speed

- 4-speed blower for precise airflow selection of heating or cooling operation.

Constant Low-Speed Blower Switch

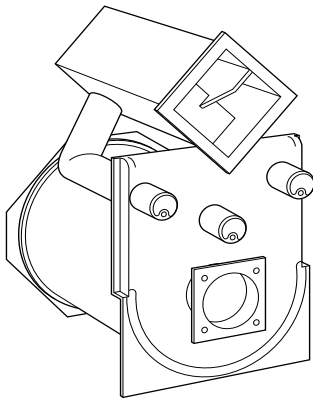
- Allows continual low-speed air circulation through the home to maximize comfort while maintaining efficiency.
- Air is constantly filtered and stagnant air is avoided.
- This option can be controlled by the homeowner.

Combustion Chamber/Heat Exchanger

- Composed mainly of stainless and aluminized steel, the unique combination combustion chamber/heat exchanger resists corrosion, overheating, and deterioration.
- Heat transfer properties make it energy efficient.
- All seams are tightly welded for leak-free operation.

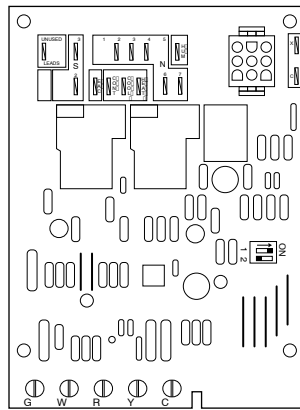
Certifications

- 369AAN unit is CSA certified.
- The efficiency is AHRI efficiency rating certified.



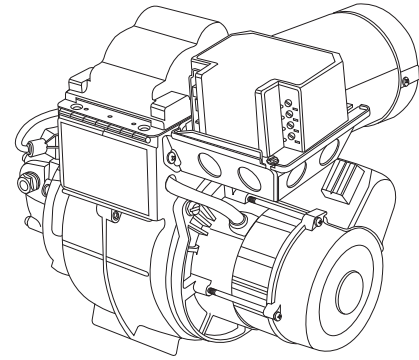
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COMBUSTION CHAMBER/
HEAT EXCHANGER



A96370

CONTROL CENTER



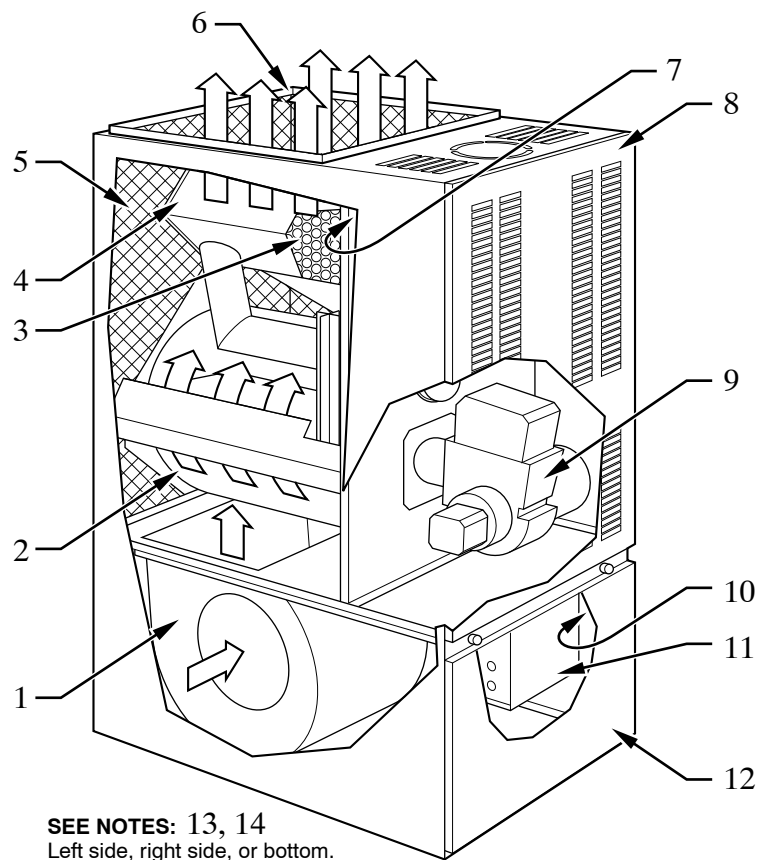
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OIL BURNER



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to www.ahridirectory.org.

**Always Ask For
FACTORY
AUTHORIZED
PARTS**



A97244

1. Heavy-duty blower circulates air across the heat exchanger to transfer heat into the home.
2. Stainless steel combustion chamber/primary heat exchanger.
3. Unique silencer system reduces combustion noise.
4. Heat exchanger designed and shaped to efficiently transfer heat from furnace into the home.
5. Fully insulated internal walls to minimize heat loss and reduce sound.
6. Supply-air plenum.
7. High limit control to prevent overtemperature operation.
8. Reversible door provides easy access to burner and controls.
9. High-performance oil burner.
10. Manual switch to allow user control of constant low-speed blower operation.
11. Adjustable electronic fan timer control (inside) has low voltage electrical terminal strip for easy connection of thermostat, cooling control, electronic air cleaner, and humidifier.
12. Access door to blower.
13. Air filter (field supplied).
14. Return-air plenum.

CLEARANCE TO COMBUSTIBLES

UNIT APPLICATION		UPFLOW	DOWNFLOW	HORIZONTAL
SIDES	Furnace	0	2	2
	Supply Plenum and Warm–Air Duct Within 6 Ft of Furnace	1	2	1
BACK	Furnace	0	1	0
TOP	Furnace Casing or Plenum	2	2	2
	Horizontal Warm–Air Duct Within 6 Ft of Furnace	2	2	3
BOTTOM	Furnace	0	0*	0*
FLUE PIPE	Horizontally or Below Pipe	4	4	4
	Vertically Above Pipe	9	9	9
FRONT		8	8	24

*For combustible floor, use approved accessory subbase.

NOTE: Adequate service clearance should be provided over and above these dimensions as required.

369AAN

PHYSICAL DATA

UNIT SIZE	036105			060120		
INPUT (BTUH)	70,000	91,000	105,000	119,000	140,000	154,000
HEATING CAPACITY (BTUH)*	57,000	74,000	85,000	97,000	115,000	126,000
NOZZLE	0.50 – 70W	0.55 – 70B	0.65 – 70B	0.75 – 70B	0.85 – 70B	0.85 – 70B
FIRING RATE (GPH)	0.50	0.65	0.75	0.85	1.00	1.10
AFUE% UPFLOW	80.5	80.5	80.5	80.5	80.5	80.5
DOWNFLOW	80	80	80	80	80	80
HORIZONTAL	80	80	80	80	80	80
OIL PUMP STAGES/PRESSURE (PSIG)	1/100	1/140	1/130	1/130	1/140	1/170
HEATING TEMP RISE °F	55–85	55–85	55–85	55–85	55–85	55–85
COOLING CFM @ 0.5–IN. WC STATIC PRESSURE	1250	1250	1250	1865	1865	1865
HEATING CFM @ 0.2–IN. WC STATIC PRESSURE	840	1130	1425	1220	1535	1890
RECOMMENDED HEATING BLOWER SPEED	Med–Low	Med–High	High	Med–Low	Med–High	High
SHIPPING WEIGHT (LB)	235	235	235	260	260	260
BURNER MODEL (3450 RPM)†	BECKETT AFG–F3	BECKETT AFG–F3	BECKETT AFG–F3	BECKETT AFG–F3	BECKETT AFG–F3	BECKETT AFG–F6

* Capacity and AFUE in accordance with U.S. Government DOE test procedures.

† Beckett AFG–F6 requires field–supplied and replacement burner firing head.

Shaded cells are as factory shipped.

PERFORMANCE DATA

UNIT SIZE	036105	060120
DIRECT-DRIVE MOTOR Hp (PSC)	1/3	3/4
MOTOR FULL LOAD AMPS	6.2	9.5
RPM (Nominal) – SPEEDS	1075–4	1075–4
BLOWER WHEEL DIAMETER X WIDTH (In.)	10 x 10	12 x 10
FILTER SIZE (In.) – (Disposable, Field Supplied)	16 x 24 or 25 x 1	20 x 30 x 1

AIR DELIVERY -CFM (WITH FILTER)

UNIT SIZE	BLOWER MOTOR HP	SPEED	EXTERNAL STATIC PRESSURE (In. wc)							
			0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
036105	1/3 PSC	High	1425	1350	1305	1250	1170	1030	925	805
		Med-High	1130	1045	1000	950	885	820	745	670
		Med-Low	840	810	770	740	685	635	580	500
		Low	725	730	740	745	730	715	690	665
060120	3/4 PSC	High	2080	2040	1965	1865	1700	1575	1475	1335
		Med-High	1890	1860	1770	1675	1550	1450	1330	1215
		Med-Low	1555	1475	1395	1320	1210	1135	1050	940
		Low	1220	1165	1080	1000	925	855	780	655

369AAN

ELECTRICAL DATA

UNIT SIZE	036105	060120
UNIT VOLTS-HERTZ – PHASE	115 – 60 – 1	115 – 60 – 1
OPERATING VOLTAGE RANGE (Min-Max)*	104 – 132	104 – 132
MAXIMUM UNIT AMPS	12.2	15.7
MINIMUM WIRE SIZE (AWG)	14	12
MAXIMUM WIRE LENGTH (Ft)†	26	26
MAXIMUM FUSE SIZE OR CKT BKR (Amps)‡	15	20
TRANSFORMER (24v)	40va	40va
EXTERNAL CONTROL POWER AVAILABLE	Heating	40va
	Cooling	30va
AIR CONDITIONING RELAY	Standard	Standard

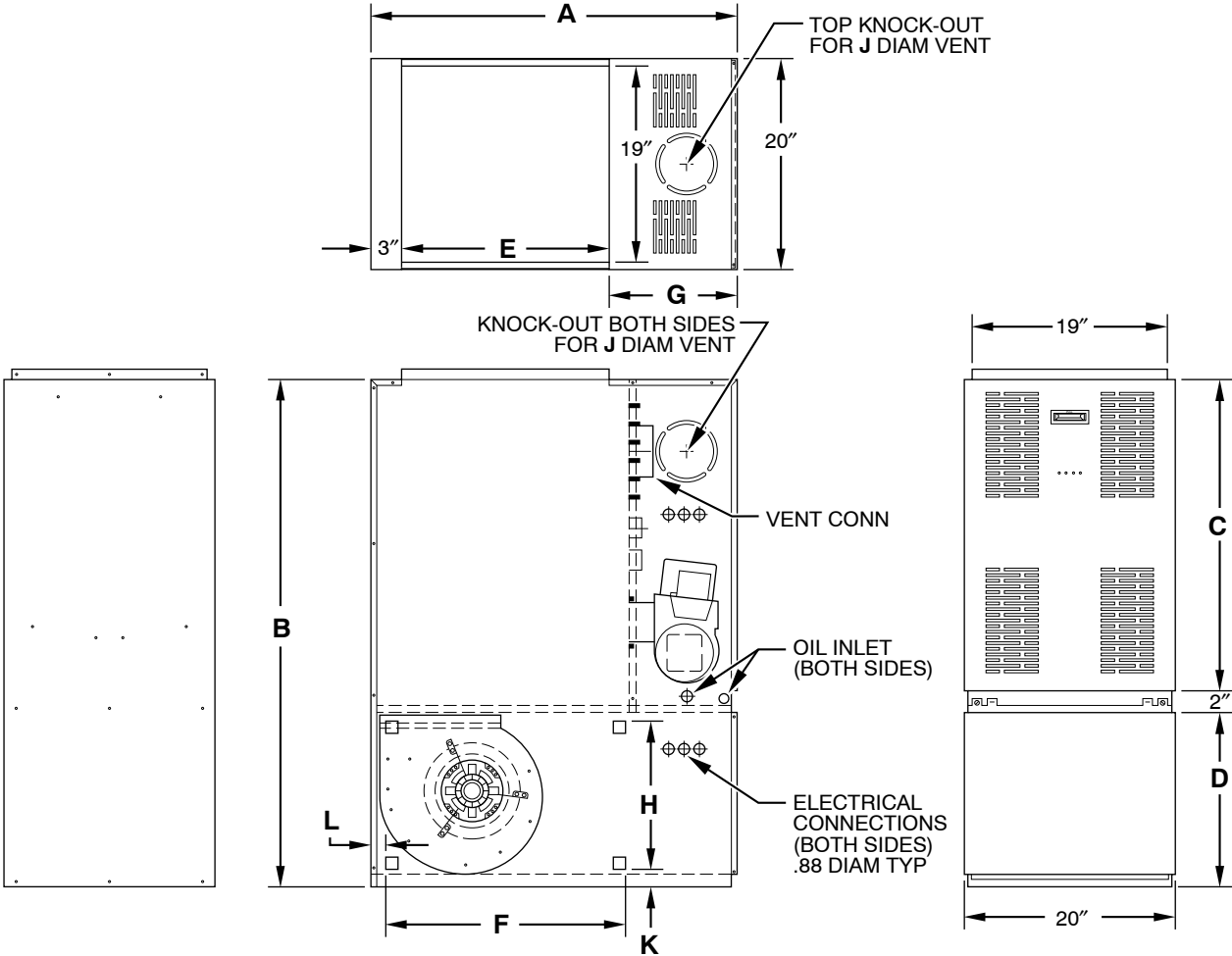
* Permissible limits of the voltage range at which the unit will operate satisfactorily.

† Length is a measured one way along wire path between unit and service panel for maximum 2% voltage drop.

‡ Time-delay fuse type is recommended.

DIMENSIONS

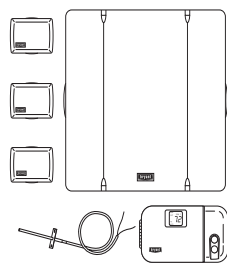
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DIMENSIONS (IN.)

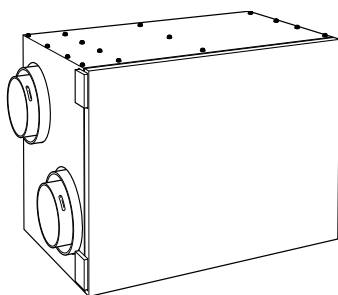
UNIT SIZE	A	B	C	D	E	F	G	H	J	K	L
036105	35	48-3/4	31-1/4	16-5/8	20	22	12	14	5	1-1/2	1-3/4
060120	39-1/2	53	33-1/4	18-3/4	24	28	12-19/32	16	6	1-5/8	1-1/2



A07042

CONTROLS: THERMOSTATS AND ZONING

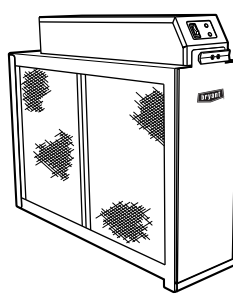
Available in programmable and non-programmable models, Bryant thermostats maintain a constant, comfortable temperature level in the home. For the ultimate in home comfort, Bryant's 2, 4, and 8-zone systems allow temperature control of individual "zones" of the home. This is accomplished through a series of electronic dampers and remote room sensors. The 4-zone system is shown.



A94336

ENERGY/HEAT RECOVERY VENTILATOR

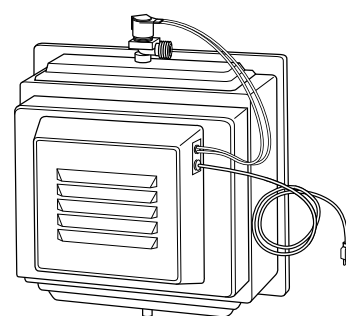
Bryant's energy or heat recovery ventilators exhaust stale indoor air and provide fresh outdoor air to the home while minimizing heat loss and humidity level. Especially useful for today's tighter constructed houses. Energy recovery ventilator is shown.



A07043

ELECTRONIC OR MECHANICAL AIR CLEANER

Cleans the air of smoke, dirt, and many pollens commonly found. Saves decorating and cleaning expenses by keeping carpets, furniture, and drapes cleaner. Electronic air cleaner is shown.



A91365

HUMIDIFIER

By adding moisture to winter-dry air, Bryant humidifier can often improve comfort and keeps woodwork, wallpaper, and paint in better condition. Moisturizing household air also helps to retain normal body heat and provides comfort at lower temperatures.

369AAN

ACCESSORIES

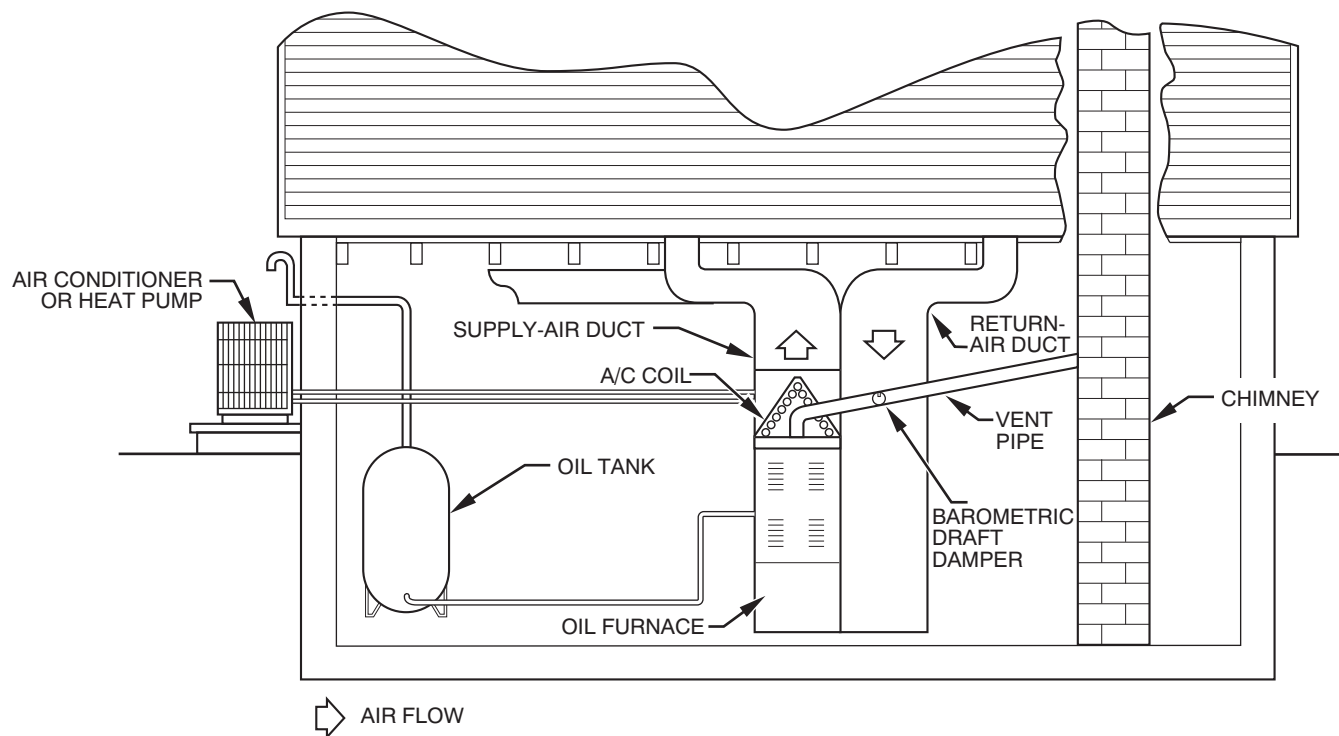
FURNACE ACCESSORIES	
KLASB0601DET	Downflow Subbase Kit – Required for combustible floors
KLASB0701DET	Horizontal Subbase Kit – Required for combustible floors
KLAV0101DET	Blocked Vent Shutoff Kit
KLADC0101DET	Downflow Conversion/Vent Guard – Required for downflow operation, Model 036105
KLADC0201DET	Downflow Conversion/Vent Guard – Required for downflow operation, Model 060120
PROGRAMMABLE THERMOSTAT SELECTION	
T1 – PAC01	Thermostat, Manual Changeover, 5–2 Day Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
T1 – PHP01	Thermostat, Manual Changeover, 5–2 Day Programmable, °F/°C, 2–Stage Heat/1–Stage Cool
T2 – PAC01	Thermostat, Auto Changeover, 5–2 Day Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
T2 – PHP01	Thermostat, Auto Changeover, 5–2 Day Programmable, °F/°C, 3–Stage Heat/2–Stage Cool
NON – PROGRAMMABLE THERMOSTAT SELECTION	
T1 – NAC01	Thermostat, Manual Changeover, Non – Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
T1 – NHP01	Thermostat, Manual Changeover, Non – Programmable, °F/°C, 2–Stage Heat/1–Stage Cool
T2 – NAC01	Thermostat, Auto Changeover, Non – Programmable, °F/°C, 1–Stage Heat/1–Stage Cool
T2 – NHP01	Thermostat, Auto Changeover, Non – Programmable, °F/°C, 3–Stage Heat/2–Stage Cool
ZONING CONTROL SELECTION	
ZONEBB2KIT01 – B	Comfort Zone II – B – 2 Zone Kit/Temperature and Humidity Control
ZONEBB4KIT01 – B	Comfort Zone II – B – 4 Zone Kit/Temperature and Humidity Control
ZONEBB8KIT01 – B	Comfort Zone II – B – 8 Zone Kit/Temperature and Humidity Control
HEALTHY HOME SOLUTIONS	
HUMBBSBP2312	Humidifier – 12 g./day, 24V Standard, Small Bypass
HUMBASBP2312	Humidifier – 12 g./day, 24V Automatic, Small Bypass
HUMBBLBP2317	Humidifier – 17 g./day, 24V Standard, Large Bypass
HUMBALBP2317	Humidifier – 17 g./day, 24V Automatic, Large Bypass
HUMBBLFP1318	Humidifier – 18 g./day, 24V Standard, Fan Powered
HUMBALFP1318	Humidifier – 18 g./day, 24V Automatic, Fan Powered
HRVBBSHA1100	Heat Recovery Ventilator – Small Horizontal Unit, 100 CFM
HRVBBSVA1100	Heat Recovery Ventilator – Small Vertical Unit, 100 CFM
HRVBBLHA1150	Heat Recovery Ventilator – Large Horizontal Unit, 150 CFM
HRVBBLHA1250	Heat Recovery Ventilator – Large Horizontal Unit, 250 CFM
HRVBBSVU1150	Heat Recovery Ventilator – Small Vertical Unit, 150 CFM
HRVBBSVU1200	Heat Recovery Ventilator – Small Vertical Unit, 200 CFM
HRVBBLVU1150	Heat Recovery Ventilator – Large Vertical Unit, 150 CFM

ACCESSORIES (CONT)

HRVBBLVU1200	Heat Recovery Ventilator – Large Vertical Unit, 200 CFM
HRVBBLVU1330	Heat Recovery Ventilator – Large Vertical Unit, 330 CFM
ERVBLHU1150	Energy Recovery Ventilator – Large Horizontal Unit, 150 CFM
ERVBLHU1200	Energy Recovery Ventilator – Large Horizontal Unit, 200 CFM
EZXCABBB1016	Media Filter Cabinet – 1600 CFM (Replacement Filter: EXPXXFIL0016)
EZXCABBB1020	Media Filter Cabinet – 2000 CFM (Replacement Filter: EXPXXFIL0020)

TYPICAL INSTALLATION

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